

## SEQUENCE LISTING

<110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)  
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<120> USE OF PKS 13 PROTEIN CODING FOR CONDENSASE OF MYCOLIC  
 ACIDS OF MYCOBACTERIA AND RELATED STRAINS AS AN  
 ANTIBIOTICS TARGET

<130> MJPVMAah644-112

<160> 31

<170> PatentIn version 3.1

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 <213> Mycobacterium tuberculosis

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Glu	Glu	Ala	Val	Lys	Arg	Leu	Arg	Gln	Val	Ala	Glu	Gly	Lys	Val	Ser	610	615	620	
Val	Gly	Ile	Ser	Ala	Ala	Asp	Ser	Pro	Ala	Ala	Asn	Gly	Pro	Val	Phe	625	630	635	640
Val	Tyr	Ser	Gly	Phe	Gly	Ser	Gln	His	Arg	Leu	Met	Ile	Lys	Glu	Leu	645	650	655	
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Asp	Glu	Gln	Thr	Tyr	Asp	Thr	Glu	Thr	Ala	Gln	Val	Val	Ile	Thr	Ala	690	695	700	
Ile	Gln	Ile	Ala	Leu	Thr	Asp	Leu	Leu	Ala	Ser	Phe	Gly	Val	Lys	Pro	705	710	715	720
Ala	Ala	Val	Met	Gly	Met	Ser	Met	Gly	Glu	Ile	Ala	Ala	Ala	Tyr	Ala	725	730	735	
Ala	Gly	Gly	Leu	Ser	Asp	Arg	Asp	Thr	Met	Leu	Ile	Ala	Ser	His	Arg	740	745	750	
Ser	Arg	Leu	Met	Gly	Glu	Gly	Glu	Lys	Ser	Leu	Ala	Glu	Asp	Gln	Leu	755	760	765	

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Ile	Glu	Glu	Asn	Pro	Glu	Tyr	Lys	Gly	Ile	Glu	Pro	Ala	Val	Tyr	Ala	785	790	795
Gly	Pro	Gly	Met	Thr	Thr	Val	Gly	Gly	Pro	Arg	Asp	Ala	Val	Val	Gln	805	810	815
Phe	Val	Glu	Lys	Leu	Glu	Ser	Glu	Asp	Lys	Phe	Ala	Arg	Leu	Leu	Asn	820	825	830
Val	Lys	Gly	Ala	Gly	His	Thr	Ser	Ala	Val	Glu	Pro	Leu	Leu	Gly	Glu	835	840	845
Leu	Ala	Gly	Glu	Ile	Ala	Gly	Ile	Glu	Pro	Leu	Pro	Leu	Gln	Ile	Pro	850	855	860
Leu	Phe	Ser	Ser	Val	Asp	Gln	Gly	Val	Thr	Tyr	Pro	Val	Gly	Ala	Val	865	870	875
Val	His	Asp	Ala	Asp	Tyr	Met	Leu	Arg	Cys	Thr	Arg	Gln	Ser	Val	Tyr	885	890	895
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Arg	Lys	Val	Pro	Glu	Ala	Glu	Ser	Leu	Arg	Asp	Leu	Leu	Ala	Lys	Leu	945	950	955
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Arg	Val	Asn	Leu	Pro	Asn	Asn	Thr	Val	Ala	Phe	Ser	Thr	Ala	Ala	Glu	1010	1015	1020
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 Ala Thr Glu Thr Val Glu Glu Arg Met Arg Ala Ile Val Ser Glu Ala  
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 Met Gly Tyr Asp Val Asp Asp Leu Pro Arg Glu Leu Pro Leu Ile Asp  
 1155 1160 1165  
 Leu Gly Leu Asp Ser Leu Met Gly Met Arg Ile Lys Asn Arg Ile Glu  
 1170 1175 1180  
 Asn Asp Phe Gln Ile Pro Pro Leu Gln Val Gln Ala Leu Arg Asp Ala  
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 Ser Val Ala Asp Val Val Ile Met Val Glu Asn Met Val Ala Gly Arg  
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 Ser Ser Glu Thr Leu Val Asp Ala Thr Pro Gln Val Pro Ala Glu Ala  
 1220 1225 1230  
 Ala Gly Glu Ala Gln Ala Ala Glu Ser Ser Ala Ser Gly Glu Asp Val  
 1235 1240 1245  
 Gln Gly Val Gly Val Ala Pro Arg Asp Ala Ser Glu Arg Met Val Phe  
 1250 1255 1260  
 Gly Thr Trp Ala Gly Leu Thr Gly Ala Ala Ala Ala Gly Val Thr Ser  
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 Lys Leu Pro Gln Ile Asp Val Asp Thr Ala Thr Ala Ile Ala Glu Arg  
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 Leu Thr Glu Arg Ser Gly Ile Glu Ile Ser Thr Glu Gln Val Leu Ala  
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 Ala Glu Thr Leu Glu Pro Leu Ser Asp Leu Val Arg Glu Gly Leu Glu  
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 Thr Glu Val Gln Gly Asn Ile Arg Val Leu Arg Gly Arg Ala Glu Gly  
 1330 1335 1340  
 Ser Thr Lys Pro Ala Val Phe Met Phe His Pro Ala Gly Gly Ser Ser  
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 Val Val Tyr Gln Pro Leu Met Arg Arg Leu Pro Glu Asp Val Pro Val  
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Tyr Gly Val Glu Arg Leu Glu Gly Asp Leu Ala Asp Arg Ala Ala Ala  
 1380 1385 1390  
 Tyr Val Asp Asp Ile Lys Lys Tyr Ser Asp Gly Phe Pro Val Val Leu  
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 Gly Gly Trp Ser Phe Gly Gly Ala Val Ala Phe Glu Val Ala His Gln  
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 Val Gln Pro Ser Asn Pro Ala Pro Asp Thr Ala Glu Glu Thr Arg Ala  
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 Arg Trp Thr Arg Tyr Ala Asp Phe Ala Lys Lys Thr Tyr Gly Leu Asp  
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 Phe Glu Val Pro Phe Glu Ile Leu Asp Thr Ile Gly Glu Asp Gly Met  
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 Leu Ser Met Met Thr Asp Phe Leu Ala Asn Thr Asp Ala Ser Glu His  
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 Gly Leu Ser Ala Gly Val Leu Glu His Gln Arg Ala Ser Phe Val Asp  
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 Ala Pro Val Ile Leu Phe Arg Ala Glu Arg Met His Asp Gly Ala Ile  
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 Ala Val Val Asp Glu Pro Glu Ile Gly Thr Val Gly Ala His Leu Ser  
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27

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28